PATENT

VIA-017-CIP

JAN 2 5 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant **Brian Banister**

10/076,925 App. No.

Filed February 14, 2002

For METHOD AND APPARATUS

> FOR APPLYING OVERLAID PERTURBATION VECTORS FOR GRADIENT FEEDBACK TRANSMIT ANTENNA ARRAY

ADAPTATION

Group Art: 2611; Conf. No. 3966

Examiner: Ghulamali, Qutbuddin I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the subject application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- (X) According to 37 CFR 1.97, this Information Disclosure Statement is being filed after the payment of the issue fee and no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application. The information submitted herewith was cited in applications related to the present application more than three months prior to the filing of this information disclosure statement. This information disclosure statement and the information contained herein is being submitted in accordance with 37 CFR 1.97 (h) and (i), and the undersigned requests the Examiner to consider the information contained herein, and if not considered to place the information in the file for the above-referenced patent application.
- Photocopies of the reference listed on the attached form PTO/SB/08A/08B are enclosed (XX) in accordance with 37 CFR 1.98(2)(ii). The listed reference is in the English language.

Respectfully submitted,

Signature Martin J. Jaquez Registration No. 38,060

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Date: January 22, 2007

PTO/SB/08A (09-06)

Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number 10/076,925 Filing Date February 14, 2002 First Named Inventor Brian C. Banister Art Unit 2611 Examiner Name Ghulamali, Qutbuddin VIA-017-CIP Attorney Docket Number

		" -	U. S. PATENT	T DOCUMENTS	
Examiner Initials*	Cite No.¹	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	^{US-} 5,781,845	07-1998	Harrison, et al.	
	2	^{US-} 6,031,866	02-2000	Oler, et al.	
	3	^{US-} 6,144,711	11-2000	Raleigh, et al.	
	4	^{US-} 6,804,312	10-2004	Win, et al.	
	5	^{US-} 6,888,809	05-2005	Foschini, et al.	
	6`	^{US-} 6,952,455	10-2005	Banister	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08B (09-06)

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Substitute for form 1449/PTO	Complete if Known			
Substitute for form 1444/PTO	Application Number	10/076,925		
INFORMATION DISCLOSURE	Filing Date	February 14, 2002		
STATEMENT BY APPLICANT	First Named Inventor	Banister		
(Use as many sheets as necessary)	Art Unit	2611		
(Use as many sneets as necessary)	Examiner Name	Ghulamali, Qutbuddin		
Sheet 2 of 2	Attorney Docket Number	VIA-017-CIP		

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	7	Heath, et al., "A Simple Scheme for Transmit Diversity Using Partial Channel Feedback", Information Systems Laboratory, IEEE, 1998, pp. 1073-1078.	
	8	Gerlach, et al., "Base Station Transmitting Antenna Arrays for Multipath Environments", Signal Processing, Vol. 54, No. 1, published by Elsevier, October 1996, pp. 59-73.	
	9	Pedersen, et al., "A Stochastic Model of the Temporal and Azimuthal Dispersion Seen at the Base Station in Outdoor Propagation Environments", (cont. below)	
		(cont. from above) IEEE Transactions on Vehicular Technology, Vol. 49, No. 2, March, 2000, pp. 437-447.	
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Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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